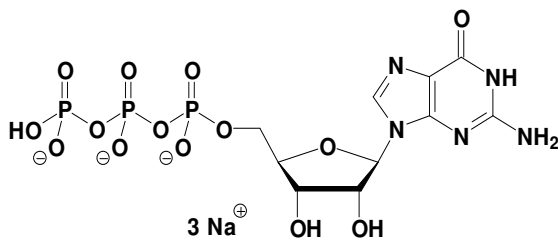


GTP

Guanosine 5'-Triphosphate, sodium salt

	Cat. No.	Amount
	GTP_100G	100 g
	GTP_1000G	1000 g



For *in vitro* use only
 Quality guaranteed for 12 months
 Store at -20°C, short term (up to one week) exposure
 to ambient temperature possible

Purity

GTP ≥ 90.0%

Molecular FormulaC₁₀H₁₄N₅O₁₄P₃ × 3 H₂O**Molecular Weight**

621.18 g/mol

Absorbance

absorbance max: 252 nm (pH 7)
 ϵ at absorbance max: 14.2 l·mmol⁻¹·cm⁻¹

Applications

- Assembly of ribosomal units ^[1]
- Microdomain formation by small GTPases ^[2]
- Antiviral activity of large GTPases (dynamin superfamily) ^[3]
- Regulation of exocytosis by Rho GTPases ^[4]
- Mechanism of hydrolysis by ADP-ribosylation factors ^[5]

Specific Ligands:

- Guanylate binding proteins ^[6]
- Yeast septins ^[7]

Selected References:

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- [3] Haller *et al.* (2011) Human MxA protein: An Interferon-induced Dynamin-like GTPase with broad antiviral activity. *J. Interferon and Cytokine Research* **31**:79.
- [4] Stephane *et al.* (2011) Rho GTPases and exocytosis: what are the molecular links? *Seminars in Cell and Developmental Biology* **22**:27.
- [5] East *et al.* (2011) Models for the function of Arf GAPs. *Seminars in Cell and Developmental Biology* **22**:3.
- [6] Vestal *et al.* (2011) The guanylate binding proteins: Emerging insights into the biochemical properties and functions of this family of large interferon-induced guanosine triphosphatase. *J. Interferon and Cytokine Research* **31**:89.
- [7] Younghoon *et al.* (2011) Septin structure and function in yeast and beyond. *Trends in Cell Biology* **21**:141.
- Drummond *et al.* (2011) Reconstitution and Organization of Escherichia coli Proto-ring Elements (FtsZ and FtsA) inside Giant Unilamellar Vesicles Obtained from Bacterial Inner Membrane. *Methods Mol. Biol.* **777** : 29
- Katsuki *et al.* (2011) Preparation of dual-color polarity-marked fluorescent microtubule seeds. *Methods Mol. Biol.* **777** : 117
- Ramachandran *et al.* (2009) Membrane Insertion of the Pleckstrin Homology Domain Variable Loop 1 Is Critical for Dynamin-catalyzed